A Frames to Mainframes to

Theater Level Logistics for the 21st Century

TEAM 19

EUSA GO Conference 9-12 Jan 04

Agenda

- Theater Logistics
  - Mission and Structure
  - 19th TSC tasks performed for 8th Army
  - 8th Army role relative to Theater logistics operations
- Theater Distribution Management
- Joint Theater Logistics

19th TSC Mission

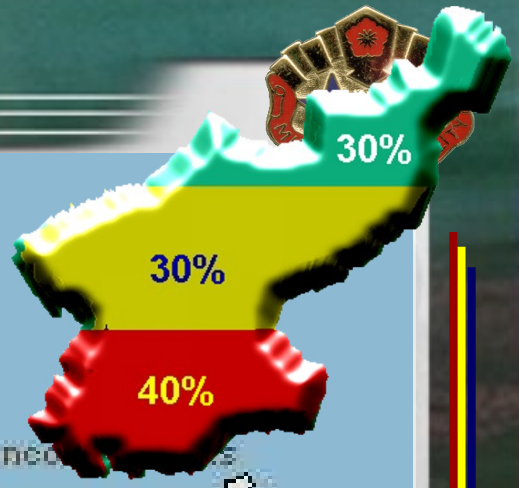
19th Theater Support Command (TSC) supports deterrence of North Korean (NK) aggression against the Republic of Korea (ROK).

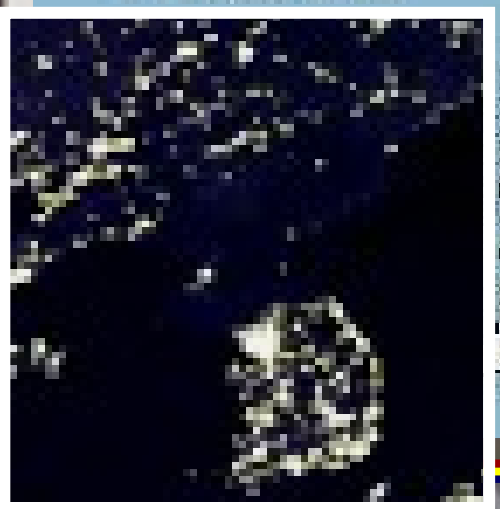
Should deterrence fail, 19th TSC supports Noncombatant Evacuation Operations (NEO); transitions to war posture; conducts Reception and Staging operations, and supports onward movement of deploying U.S. Forces; and performs combat service support operations in support of combat operations on the Korean peninsula.

The Korea Challenge

The Korean Theater

- 75% unusable terrain
- Densely populated
- Severe weather





Operational Environment:

- Enemy is very close
- No terrain to trade for time
- Sustainment base is far away
- Joint/Coalition Force in place

The Theater Logistics Challenge

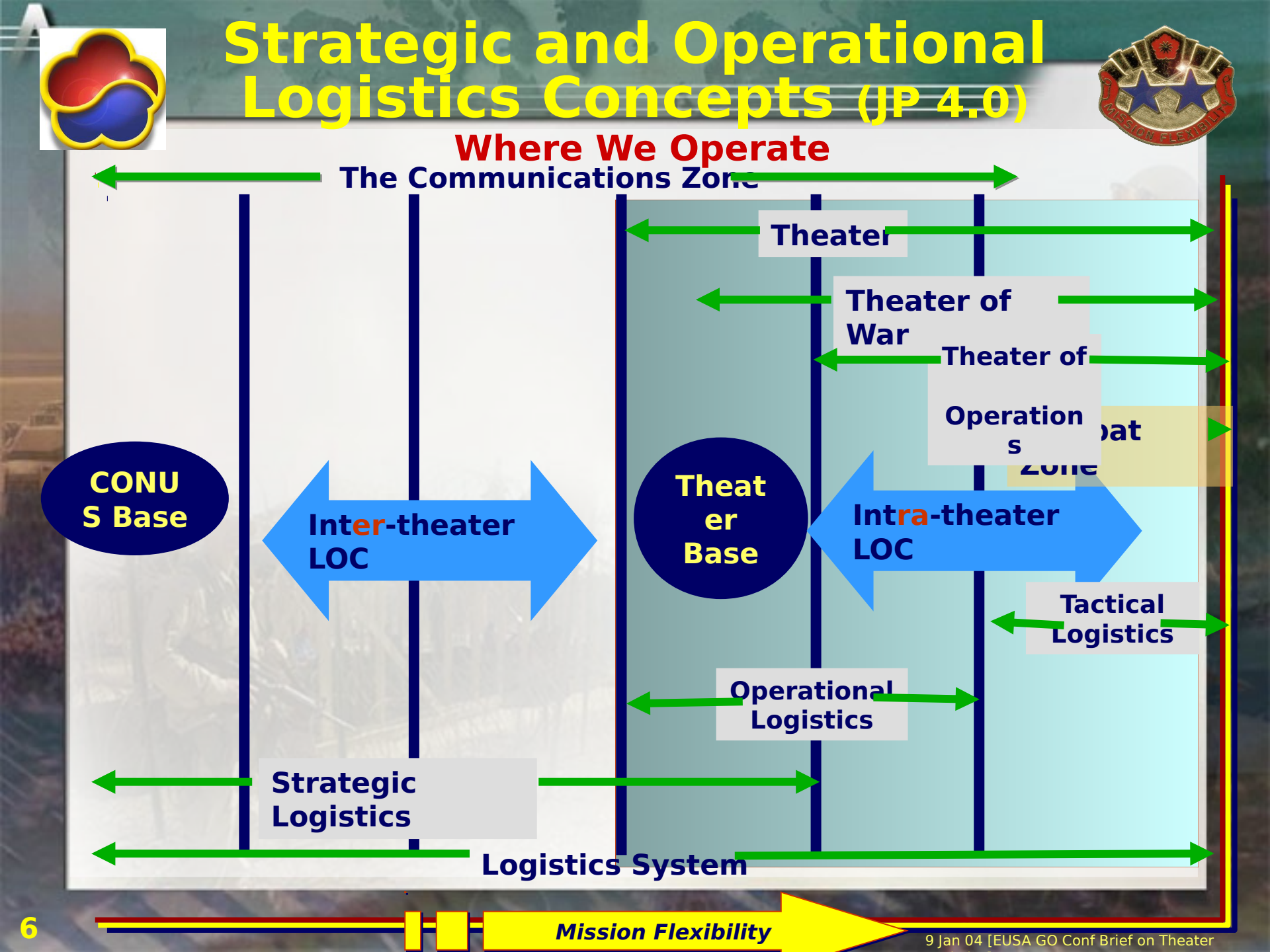
Bridge Strategic, Operational, and Tactical Logistics

Operate Across the Spectrum of Military Operations

Retrograde NEO and Constitute the Command

All Occurring Simultaneously

Strategic and Operational Logistics Concepts (JP 4.0)



What We Do…

Joint Logistics

Warfighting Readiness

Theater Materiel Mgt

Distribution Based Logistics

APS4/War Reserves

Maintenance Contracting

National Maintenance Program

GSRP

Theater Doctrine

46% of Army Ammo

4th QM Aerial Delivery
Only Capability in Country

Manage $18B of Stocks

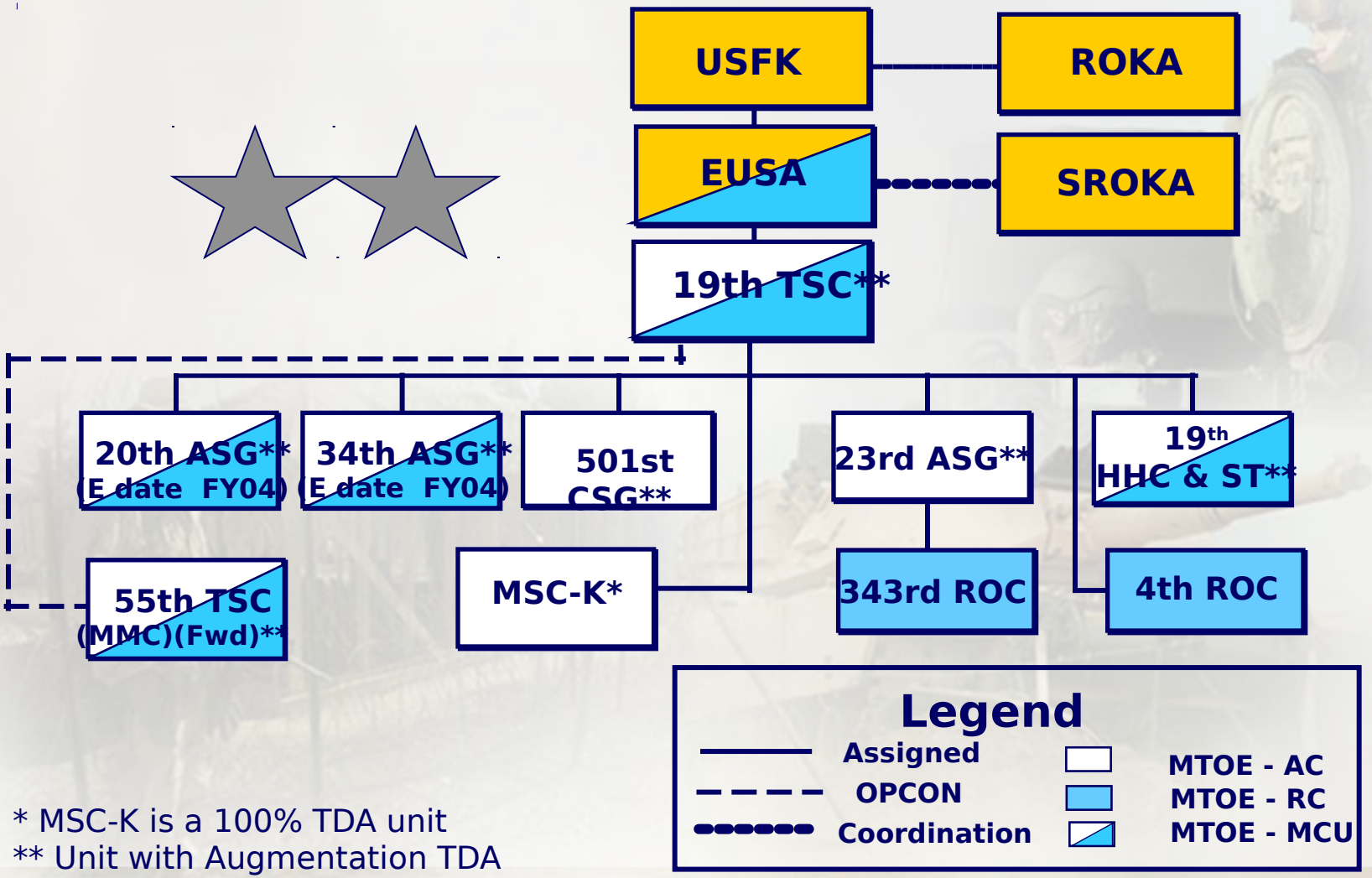
Single Stock Fund

Class I	**Subsistence**
Class II	**Clothing & Equipment**
Class IIIP	**Chemicals, Oils & Lubricants**
Class IIIB	**Bulk Fuel**
Class IV	**Construction & Barrier Materiel**
Class V	**Ammunition**
Class VII	**Major End Items**
Class IX	**Repair Parts**
Maint… Prog…	**…End**

19th TSC Additional Missions

- **Force Protection – Senior Mission Commander for Areas II, III and IV approx 80% of South Korean land mass**
- **ARFOR NEO, run quarterly Courageous Channel evacuation exercises (Changing to 8th Army?)**
- **RSO operator for Army designated APOD/SPODs**

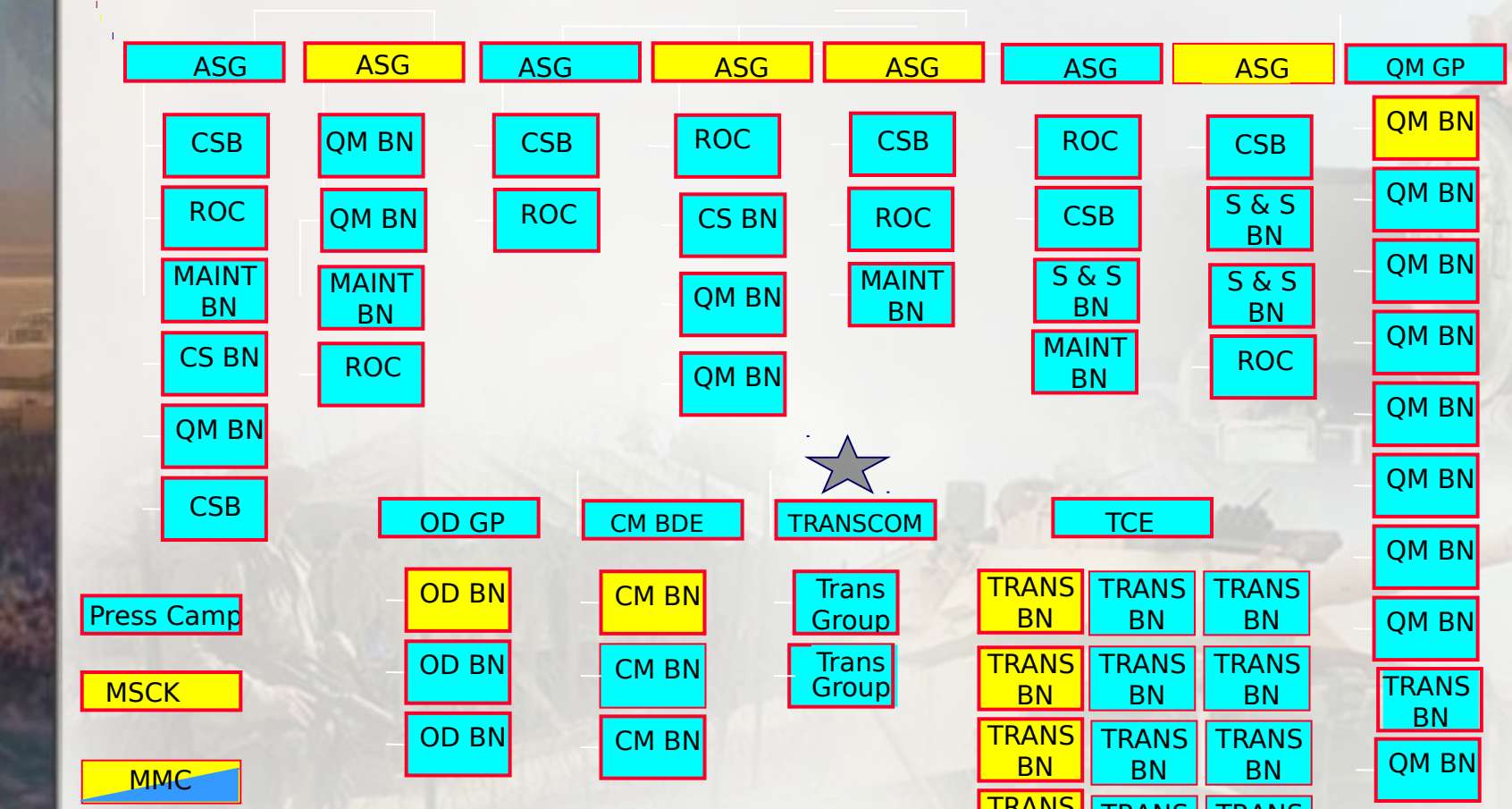
19th TSC (Armistice)

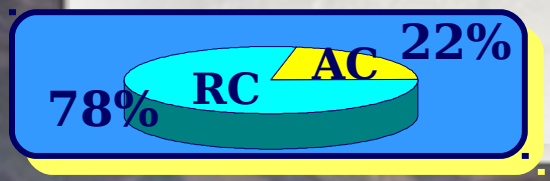


* MSC-K is a 100% TDA unit
** Unit with Augmentation TDA

Wartime Structure

CSS\CS (Current ..... Future???)





Wartime strength:
Approx 50,000

Wartime Host Nation Support We Depend On

WHNS ASSETS

Transportation:
- Vehicles Aircraft Ships

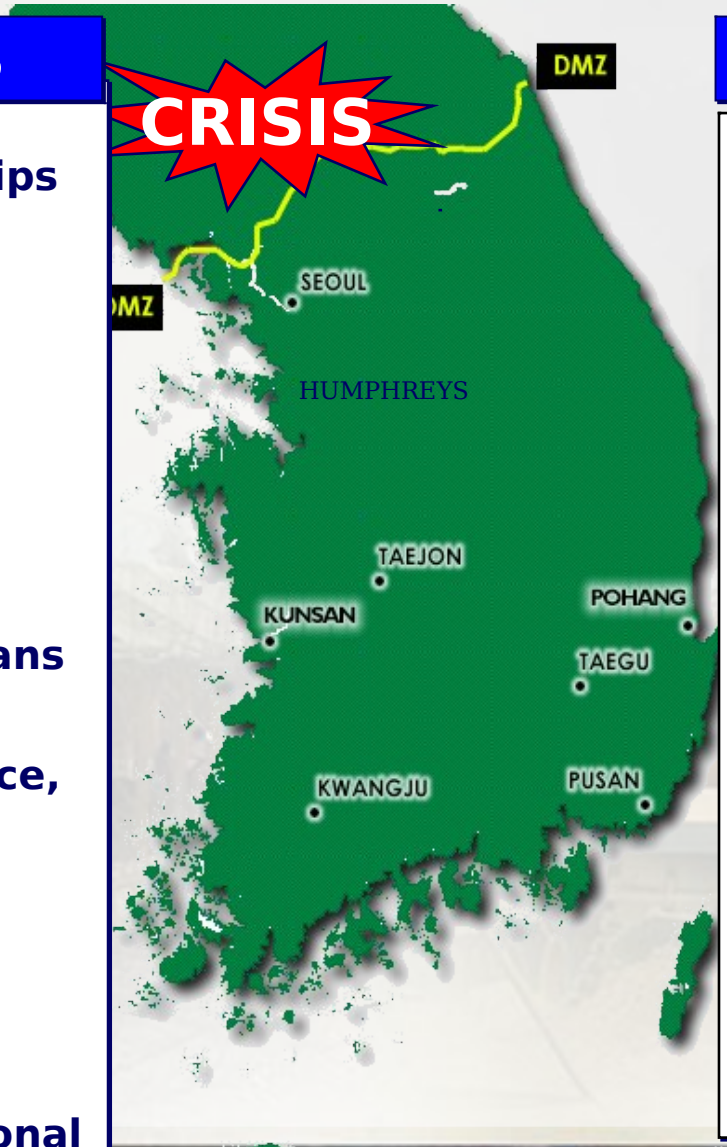
Engineering
- Land, buildings, Construction Equipment, Construction Companies

Personnel:
- KATUSA, KSC, Civilians

Ammunition:
- Storage, Maintenance, Movement

Security:
- Contracting Guards, POW Camps

Communication
- Domestic, International Circuits



WHNS ASSETS

Petroleum
- Storage, Movement

Field Services
- Laundry, Bath, Portable toilets

Maintenance
- Civilian
- Military

Medical
- Hospital Beds, IV Fluids, Oxygen

NBC
- Plastic Sheeting

Supply
- Bottled Drinking Water, Indigenous Rations, MHE

ission Flexibility

19th TSC Tasks Performed for 8th Army

- **Maintain Theater Level Sustainment Stocks for Army and ASOS requirements:**
  - **CL I – 7 DOS**
  - **CL II – 7 DOS**
  - **CL III (B) 23, (P) 7DOS**
  - **CL IV – 7 DOS**
  - **CL V – 15 DOS**
  - **CL IX – 30 DOS**
  - **Water – Purification Capability**
  - **Mortuary Affairs – Processing, Operational Project Stocks**

Total Theater Stockage = UBL+ DIV + Corps/Theater DS + Theater GS + pipeline

- **RSO operations for Army designated APODs/SPODs**
- **Field services**
- **DS and GS to limited Depot level repair for ground and Army aviation equipment as well as ASOS for common items**
- **STAMIS integration of arriving units**
- **Maintain RFID infrastructure**
- **Operate Intra-Theater Distribution System**
- **Call forward prepo stocks as released by ACS G4**
- **Transfer War Reserve Stocks for Allies (WRSA) as directed**

19th TSC ASOS Responsibilities

- **Common Item Support:** CL I - operational rations, CL II- consumables/expendable, CL II - package, CL IV- field fortification/barrier material, CLV-Army common ammunition, & CL IX- repair parts for Army managed major end items
  - Support to displaced persons, NEO, EPWs as directed
  - C2 air drop assets/operations
  - Support to allies as directed
- **Inland POL Distribution**: plan for & execute the support of inland POL distribution to theater forces
- **RSO**: Plan for & support the onward movement of U.S. Army augmentation forces and other service component forces from APODs/SPODs where Army is designated as the dominant user
- **Movement Control:** Establish Movement Control Teams (MCT) to service transportation needs of all U.S. units in theater
- **Common User Transport**: Provide theater-level command & control for common-user water terminal operations, common-user line haul transportation, common-user waterborne transportation, and common-user rail transportation

8th Army Roles Relative to Theater Sustainment

- Oversee Title 10 support to USFK forces
- Generate 8th Army Logistics Plans and Policy (LPP)
- Ensure preconflict sustainment capability per LPP and OPLANs in specified DOS
- Set priorities
- C2 & Integration of RSOI (develop combat power)
- Participation on select Combined Logistic Coordinating Agencies
- Oversee Logistics and Other ASOS requirements:
  - Medical Logistics and Blood Supply,
  - Military Veterinary Support,
  - Military Postal Services, and
  - others as specified (NEO repatriation)

LOG C4ISR

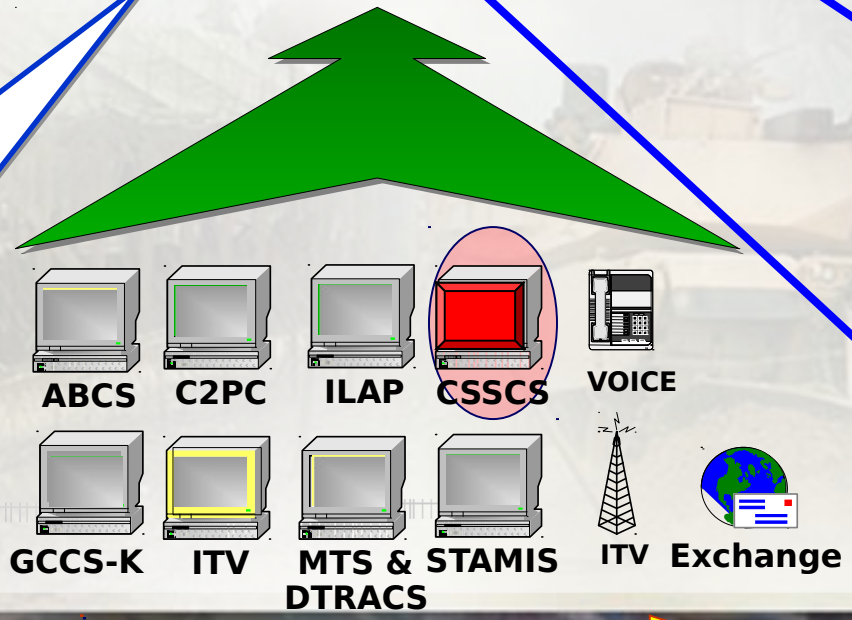
An Essential Element….

LOG C2 Picture Getting Better.....

Predator Video or **CCIR** GBS / PC	Commercial News CCTV	Strategic Movement GCCS	JRSOI COP GCCS-K	Intra-Theater Movement GCCS /GCC-K	
		Rear Area COP GCCS (SROKA)	Theater LOG GCCS	Commo & LOG Connectivity C2PC/GCCS-K	Threat Intel GCCS/C2PC, ASAS Lite, TI JSTARS, IMETS, Terrain Tools, PC
Scrolling Sig Acts PC	Commander's SITREP PC	TSC Personnel C2PC/GCCS-K	Theater Medical C2PC/GCCS-K	Civil/Military Operations C2PC/GCCS-K	Fires\ADA GCCS/C2PC or JTF or AFATDS or ADOCS, PC

Maneuver/ TAMD GCCS/C2PC	
Operational Protection GCCS/C2PC	

Objective:
-**Automated Feeds**
- **Each tile drills to source data**
- **Staff Proponent can tailor by Phase**



Assessments based on many sources:
AMC, DLA, ITV, TRANS, POL, AMMO, S&S, Maint, HN, Log Auto + others

Theater Distribution Management

ITV\Asset Visibility and Distribution Based Logistics

Having Combat Service Support is one thing… getting <u>what is needed</u>, <u>where it is needed</u>, <u>when it is needed</u> is situational knowledge, awareness and understanding…..

- **Knowledge = what I have available vs. what you need**
- **Awareness = Where you are and where you will be, with time as a dimension of the battle space**
- **Understanding = Knowing the concept of maneuver and combat situation in order to apply CSS as a combat multiplier**

Distribution Management
JP 4.0

"Distribution is the operational process of synchronizing all the elements of logistics system to deliver the right things to the right place at the right time to support the CINC."

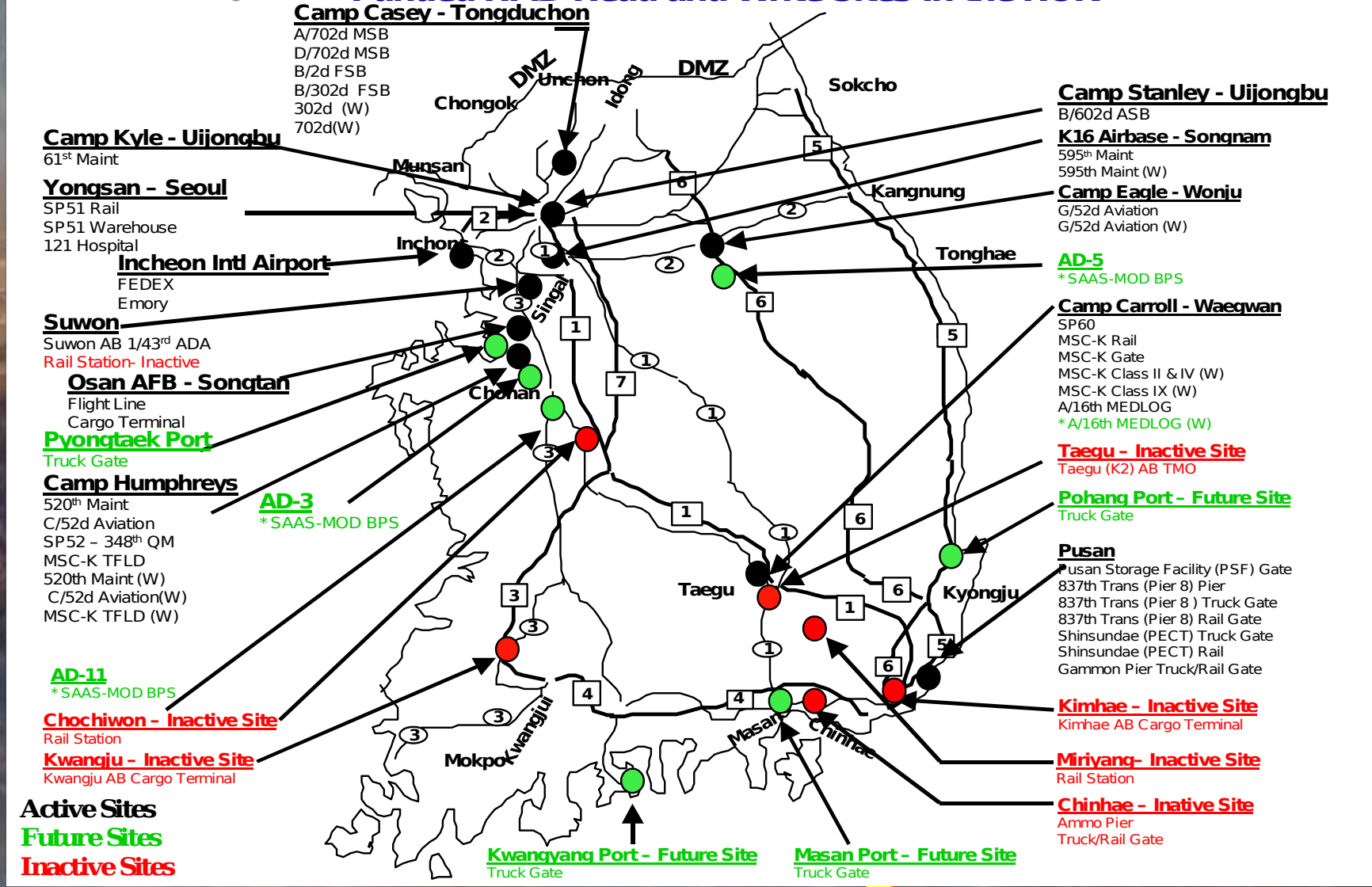
- Synchronizing and coordinating a complex network (physical, communications, information, and resources) and
- technical components (supply, transportation, maintenance, and logistics management)
- to achieve responsiveness and customized solutions to warfighting requirements.

It isn't about coordinating transportation!!!!!

KTO Current and Planned RFID Structure

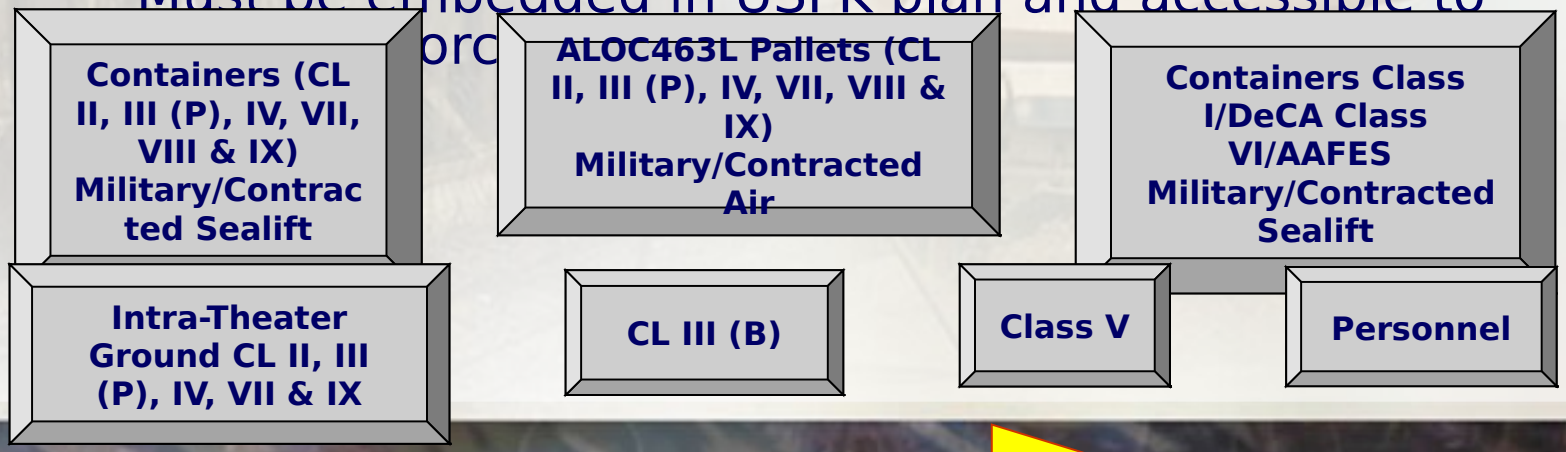
Fully Funded!!

Funded RFID Read and Write Sites In the ROK



KTO Distribution Management Status

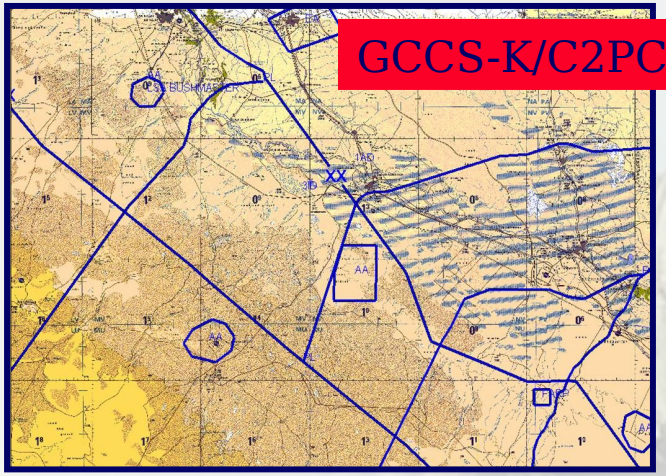
- Armistice Distribution architecture mapped NOV 03
  - Current architecture is Army centric
  - must expand to include other service delivery locations to enable DLA forward depot and Joint enable distribution system
- Contingency Distribution architecture being mapped ECD EMO JAN 04
  - Must be Joint from inception
  - Must be embedded in USFK plan and accessible to orc


Containers (CL II, III (P), IV, VII, VIII & IX) Military/Contracted Sealift
ALOC463L Pallets (CL II, III (P), IV, VII, VIII & IX) Military/Contracted Air
Containers Class I/DeCA Class VI/AAFES Military/Contracted Sealift
Intra-Theater Ground CL II, III (P), IV, VII & IX
CL III (B)
Class V
Personnel

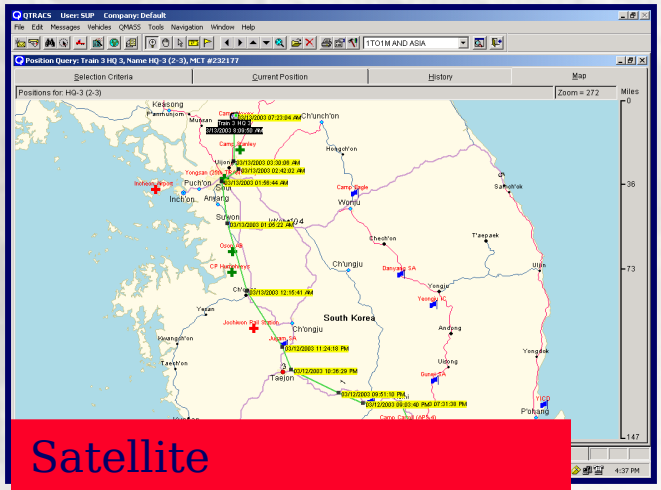
KTO Distribution Management Status

- Can See:
  - RF tagged cargo as it passes interrogators
  - Satellite Tracking Feeds on all STS enabled vehicles/cargo
  - Level 4 detail on all MTMC shipments
  - Army DS/GS/ Theater Sustainment stock status to SSA level
- Can't See (geo-spatially in a single automated data base):
  - Other service cargo or asset balances
  - Cargo/movements not RF tagged or STS enabled
  - Level 6 detail on all inbound shipments (containers, etc.)
  - Shipments for commercial sources via Fed EX, UPS, etc.
  - Assets due in from maintenance (manual reconciliation)
  - Other service stock status (could do manually)
  - APS stock status/OPPROJ Stock Status (could do manually)
  - Prescribed Load List Status

Distribution Management Board



Sustainment Operations **Situational Awareness**



Satellite Tracking/IRRIS

- Next 24 Hours (Movement Program)
  - CL III (B)
  - CL V
  - CL IV
  - Critical CL VII
  - WSRO
  - Critical CL IX
  - Air Missions
- ID High V
hrs)

Concept of Support

osure

Distribution Management Board

Task: Cover critical movements which did not occur over the last 24 hours and projected movements for the next 24 hours

Purpose: To streamline the DMB process to ensure critical movements/priorities are allocated the resources to accomplish the mission

Method: Using the Theater Movement Program/Plan for next 24 hours.

- **Roll Call**
  - SPOs, MCB, MMC
  - 8th Army: G1, G2, G3, G4, CTO
  - RAOC, SEP BDEs
- **Current situation update by exception**
  - G2 (updates since last BUB)(C2PC)
  - G3 (updates since last BUB)(C2PC)
- **MSR Status Update** (CTO/EN/HTS)(GCCS-K)
- **8th Army Priorities** (G4, 19th SPO)
- **Last 24 hours**
  - What did not occur?
  - Impacts on mission?

- **Next 24 Hours** (Movement Program)
  - CL III (B)
  - CL V
  - CL IV
  - Critical CL VII
  - WSRO
  - Critical CL IX
  - Air Missions

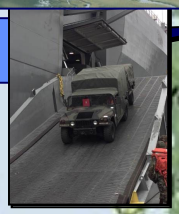
  } Cover in order of current priority.

- **ID High Value Assets** (24-96 hrs)

RSOI / FE 04 Asset Visibility/Tracking Exercises

XVIII Corps

Marines MPS



APS4 Draw

Choke Point

APS4/TSV?

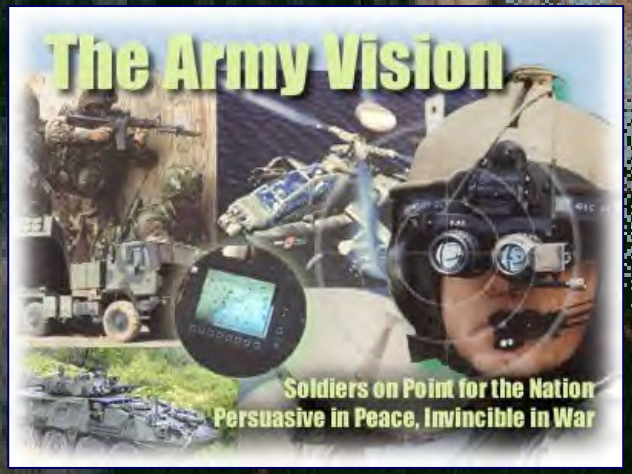
Simulated Vessel

East Sea

Perm Site
Temp Site
◯ = Interrogator

Perspective on Logistics For the Future

- Responsive
- Deployable
- Agile
- Versatile
- Lethal
- Survivable
- Sustainable



- Dominate Maneuver
- Precision engagement
- Full dimension protection
- Full spectrum [redacted]
- Sustainable

CSA's Focus:

- Joint & Expeditionary Mindset
- Campaign Quality Capabilities
- Updated Processes/Policy

Future Peninsula Logistics Vision:

Flexible and scalable, JOINT enabled "sense and respond" Theater Level logistics support, that supports armistice operations and the Combatant Commander's OPLAN, through *real time, shared asset visibility*, translatable into sustained <u>combat capability</u> with modern technological command and control; conducted with the smallest effective footprint of CSS structure.

Future Peninsula Logistics

Problem Statement: Theater logistics is not optimized and does not adequately support current and future KTO military operations (armistice thru hostilities) and Joint/Army transformation.

Goals:

- **Peninsula wide asset visibility and movements tracking**
- **Distribution based logistics with the smallest effective footprint (CSS units and supplies)**
- **Automation enablers that lead the Army in implementation of logistics transformation initiatives**
- **Mission of wartrace units – verify\validate\simplify**
- **Most effective AC/RC mix IAW OPLAN and FPL goals**
- **Joint theater logistics capability\processes**
- **Clean lines of C2 (accountability and responsibility) armistice through transition to wartime operations**

FY 02-03 Accomplishments
Future Peninsula Logistics

- ☺ Making great progress on DLA forward stockage initiative
- 😐 TSC structure for 2004-2010 still under discussion with MACOM redesign proposals
- ☺ Implemented Single Stock Fund MS III - Capitalized theater Tactical level inventory accounts into SSF (May 03)
- ☺ APS4 readiness assessment and improvement Satellite Tracking and In-transit Visibility Demo (RSOI and Chokepoint exercise)
- ☺ C2 Redesign completed and in staffing at HQDA
- ☺ RSOI Rock Drill at Busan RSOI 03 & 04
- ☺ Web-based Joint Logistics Requisitioning System

Future Peninsula Logistics Potential Supporting Projects

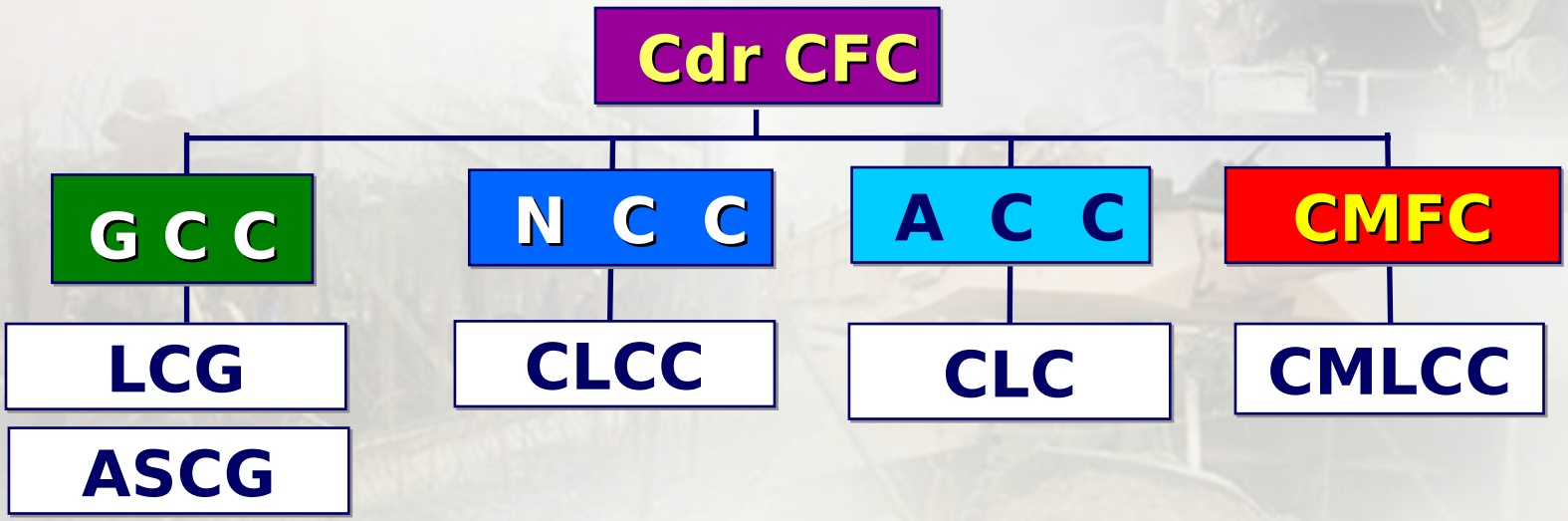
- Investment strategy for ITV architecture – what type for what purpose
  - MTS vs STS
  - RF/AIT
  - Common operating picture system?
- Re-engineer distribution pipelines (forward and reverse for max effectiveness (improve speed = lower footprint and increased readiness)
- Leverage ROKA maintenance capabilities
- Contracts vs. in house capabilities – best mix?
- Leveraging DLA executive agency's in the COMMZ
- Contract operations in KTO – duplicative?
- Designing a joint theater/regional support capability

Why Joint Theater Level Logistics?

- **Theater Logistics in a contingency is managed by Ad Hoc Committees and Boards**
- **Current views of the connections between strategic to operational levels of logistics is one of "seams" created by independent plans and operations by service, by function, by provider. Seams create potential gaps, redundancy of effort and poor use of critical resources (lift, time, terrain, facilities, contacts, dollars)**
- **Joint Theater Logistics should provide a PLUG for arriving forces to connect into a planned and established capability – (like a high speed USB port connection into Microsoft XP) – that can automatically identify the arriving force and prepares to**

Combined Logistics Coordinating Agencies

- **Purpose :** Coordinate Combined Logistics Support issues - ROK / US
- **Activate :** Based on **DEFCON or On Order** **(not a standing capability 24/7 – therefore limited experience and training)**
- **Organization:** Service Component and Functional orientation



CTMC (TRANS) **MSCG (Medical)** **CPSC (POL)**

Combined Logistics Coordinating Agencies

- Combined Transportation Movements Center (CTMC)
  - Combined Sealift Coordinating Committee (CSCC)
- Air Combat Logistics Center (CLC)
- Combined Marine Logistics Coordinating Committee (CMLCC)
- Medical Supply Coordinating Group (MSCG)
- Combined Petroleum Supply Group (CPSC)
- Logistics Coordinating Group (LCG)
- Ammunition Supply Coordinating Group (ASCG)
- Naval Combined Logistics Coordinating Committee (CLCC)

	CHAIR - CO-CHAIRMEN	
CTMC:	ROK US	B-1 Bunker vic Se
- CSCC:	ROK-US	vic Busan
CLC:	ROK-US	vic Osan AB
CMLCC:	ROK-US	vic Palan
MSCG:	ROK-US	vic Seoul (TANGO)
CPSC:	US- ROK	vic Daegu
LCG & ASCG:	ROK - US	vic Daegu
CLCC:	ROK - US	vic Chinhae

My Thoughts - Tenets of a Joint Theater Level Logistics

- Under full C2 of combatant commander (COCOM)
- Joint capability is KEY; structure is secondary
- Can replace the joint material boards that are traditionally created ad hoc in an contingency
  - Materials
  - Fuels
  - Movements
  - Etc.
- Capable of connecting to combined and strategic level systems
- Empowered to coordinate across service components within theater
- Direct coordinating authority (DIRLAUTH) back to national level systems

"Joint Enabling" the KTO On Going Actions

- Establishing a DLA forward depot that serves all services armistice requirements
- Determining delta between theater stocks and all service contingency requirements –
- Once common item requirements are determined, develop push/pull packages for the delta from DLA and TPFDD
- Validate distribution system – armistice actual and contingency plans against all service destinations (forward and reverse)
- Enable a Joint Requisitioning System (USFK JRS) so that all arriving forces can plug in to the Theater Sustainment Stocks via their standard automation systems
- Leverage GCSS-K to show a standard "Log Cop" that facilitates all services operations in the KTO
- Implement and serve as executive agent to ensure DoD guidance on RFID tracking of inbound and outbound cargo is complied with by all shippers
- Working with USN, USMC and CENTCOM to demonstrate Joint requisitioning process improvements

"Joint Enabling" the KTO
Common User Land (CUL) Functions that Could Be Done

PLANNING

- Common items feasibility analysis
- Flow analysis support arrival clearance and onward movement
- TPFDD prepositioned (or planned) pull packages @ DLA depots based on theater requirements determination (all services)
- Determine resources necessary to move and sustain combat forces
- Plan and manage in-theater RFAIT infrastructure, tracking cargo
- Commercial source data base
- Maintain data base links to all existing Inter Service agreements, MOAs, Acquisition Cross Service Agreements, WHNS agreements, armistice and contingency contracts, and OPLAN specified tasks for Theater CSS support
- Centrally planned and executed mutual support contracts for CSS (LOGCAP, HNS, WHNS) – clearing house for theater contacting requirements
- DIRLAUTH w/ USMC, USN, USAF (two way communication)
- Identify common items repair requirements and facilities needed for deploying depot, Program Manager and contractor maintenance teams
- Central AAFES, DeCA, DLA, BASEOPS interface and coordination for feasibility, flow and surge of common items

FACILITATING FORCE ARRIVAL

- Virtual integration to create theater support synergy, portals to plug into

"Joint Enabling" the KTO
Common User Land (CUL) Functions that Could Be Done

SUSTAINING

- Common items support – Single Integrated Logistics Manager (SITLM) for commodities and services as directed
- Maintain visibility of available theater sustainment resources
- Establish and maintain the distribution system
- Overland petroleum distribution support to land-based DoD components, operate tactical petroleum storage and distribution systems to include pipelines
- Ammo receipt, storage, distribution, retrograde, disposal
- Oil analysis (AOAP) support for ground and fixed wing
- Calibration support
- Hazardous materiel disposal
- Manage Joint/consolidated common items repair facility
- Mortuary support in the COMMZ
- Explosive Ordnance Disposal
- Field services (laundry, bath, renovation)
- Manage ground transportation assets
- Oversee theater LOGCAP/CSS contract requirements
- Donations and disposal support
- Refugee, EPW and dislocated civilian support as directed
- Support to coalition forces/operations, governmental and NGOs as directed
- Water purification

"Joint Enabling" the KTO
Common User Land (CUL) Functions that Could Be Done

PROTECTING and PRESERVING THE FORCE:

- COMMZ link to SROKA (COMMZ security coordination)
- Identify critical logistics infrastructure for protection, management
- Mortuary – tracking, evacuating, retrograding remains
- Salvage for ground based operations

FORCE REDEPLOYMENT:

- Operate redeployment APODs/SPODs as directed
- Customs, agricultural clearing and retrograde coordination
- Flow analysis to support clearance and retrograde movement

Questions?
?